

**isc Silicon PNP Power Transistor**
**2SB724**
**DESCRIPTION**

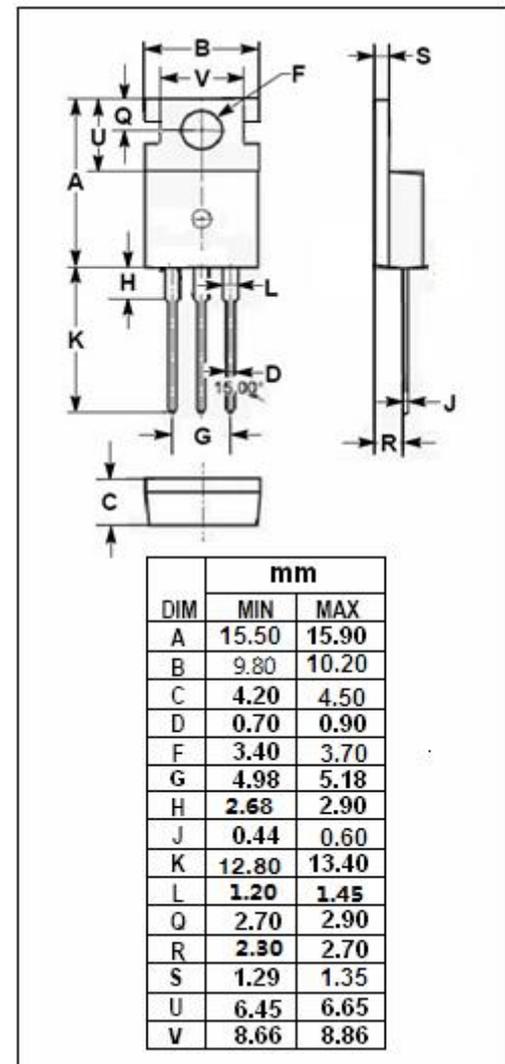
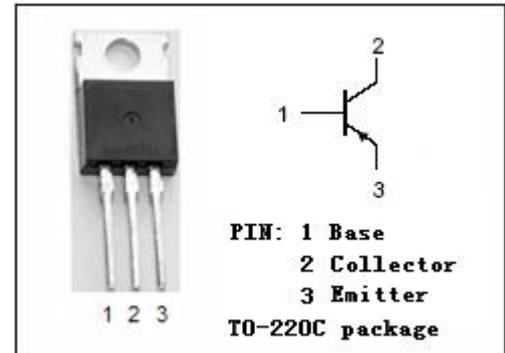
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = -60V(\text{Min})$
- Good Linearity of  $h_{FE}$
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for use in general purpose power amplifier and switching applications

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-100	V
$V_{CEO}$	Collector-Emitter Voltage	-60	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-3	A
$I_{CM}$	Collector Current-Peak	-5	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	25	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



## isc Silicon PNP Power Transistor

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## ELECTRICAL CHARACTERISTICS

T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>c</sub> = -30mA ; I <sub>B</sub> = 0	-60			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>c</sub> = -3A ; I <sub>B</sub> = -0.6A			-1.2	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>c</sub> = -3A ; V <sub>CE</sub> = -4V			-1.8	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -100V ; I <sub>E</sub> = 0			-20	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V ; I <sub>C</sub> = 0			-10	μ A
h <sub>FE1</sub>	DC Current Gain	I <sub>c</sub> = -1A ; V <sub>CE</sub> = -3V	25			
h <sub>FE2</sub>	DC Current Gain	I <sub>c</sub> = -3A ; V <sub>CE</sub> = -3V	10			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>c</sub> =-0.5A ; V <sub>CE</sub> = -10V	5			MHz

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